

## 8. Monitoring and Research

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Monitoring and research are key inputs to CALFED's adaptive management process. Monitoring gauges the success of individual Levee Program actions and provides feedback necessary for successful Levee Program implementation. Research also will provide information necessary for successful Levee Program implementation. Levee Program monitoring and research will be developed largely within the context of the CMARP, which is developing a comprehensive monitoring, assessment, and research program for CALFED as a whole. A panel of experts with a collective technical experience representative of all the different elements of the Levee Program has convened to develop the Levee Program component of the CMARP. Levee program monitoring and research under the CMARP will address monitoring for levee cross section compliance, subsidence, seismic activity, and success of environmental mitigation, as well as research on sediment toxicity and characterization. The CMARP will coordinate with existing programs such as the San Francisco Estuary Institute, Interagency Ecological Program, and LTMS to avoid duplication in developing research and monitoring efforts, and to build on existing monitoring and research programs where possible (for a more complete discussion of the CMARP effort, see the CMARP document).

In addition, the Levee Program is coordinating with the current near-term ecosystem (Category III) focused grant for research that will address sediment toxicity. The Levee Program has provided input and coordinated with members of the Delta Levees and Habitat Advisory Committee, DFG, and the near-term ecosystem restoration program in the design of this research project that will provide much needed information regarding sediment toxicity and develop a Comprehensive Strategy for Delta sediments.

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